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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/887,653	06/22/2001	James E. Fox	018760.23	7190
21878	7590 06/01/2006		EXAMINER	
KENNEDY COVINGTON LOBDELL & HICKMAN, LLP 214 N. TRYON STREET HEARST TOWER, 47TH FLOOR CHARLOTTE, NC 28202			FAISON GEE, VERONICA FAYE	
			ART UNIT	PAPER NUMBER
			1755	
			DATE MAILED: 06/01/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		09/887,653	FOX ET AL.	7—			
	Office Action Summary	Examiner	Art Unit				
		Veronica Faison-Gee	1755				
	The MAILING DATE of this communication app	pears on the cover sheet with the c	orrespondence add	dress			
Period fo	• •						
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period or re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this co D (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on <u>02 M</u>	larch 2006.					
•	·	action is non-final.					
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
,—	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
4)⊠ Claim(s) <u>1-7,10-16,20,21 and 24-26</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
·	Claim(s) <u>1-7,10-16,20,21,24-26</u> is/are rejected						
7)	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction and/o	r election requirement.					
Applicati	ion Papers						
	The specification is objected to by the Examine	ır.					
·—	The drawing(s) filed on is/are: a) ☐ acc		Examiner.				
,	Applicant may not request that any objection to the						
	Replacement drawing sheet(s) including the correct			R 1.121(d).			
11)	The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PT	O-152.			
Priority u	under 35 U.S.C. § 119						
12)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).				
a)	☐ All b)☐ Some * c)☐ None of:						
	1. Certified copies of the priority document	s have been received.					
	2. Certified copies of the priority document	s have been received in Applicati	on No				
	3. Copies of the certified copies of the prior	rity documents have been receive	ed in this National :	Stage			
	application from the International Bureau	•					
* 5	See the attached detailed Office action for a list	of the certified copies not receive	:d.				
Attachmen	t(s)						
1) Notic	e of References Cited (PTO-892)	4) Interview Summary					
	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal P		-152)			
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	6) Other:		·,			

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DETAILED ACTION

Preamble

The preamble limitation "for drop on demand inkjet printing" is of no consequence when a composition is the same. Ultimate intended utility does not make a composition patentable. See *In re Pearson*,181 USPQ 6411.

Response to Amendment

The declaration under 37 CFR 1.132 filed 10-21-05 is insufficient to overcome the rejection of claims 1-7, 10-16, 20, 21, and 24-26 based upon 103 rejection as set forth in the last Office action because: The declaration is direct to showing that drop-on-demand has different requirements than continuous ink jet printing. However it is still the position of the Examiner that Applicant claims are directed to any ink formulation. Applicant has not claimed drop on demand inkjet printing in such a way that it is not concerned intended use.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6, 10-12, 14-16, 20, 21 and 24-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Thakkar (US Patent 5,512,089).

Thakkar teaches an ink jet ink composition comprising a liquid vehicle, a pigment and a base (abstract and col. 2 lines 30-35). The reference further teaches that

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polypropylene glycol has a molecular weight of 425 and a surfactant such as Surfynol TGE (col. 3 lines 10-15). See example 2 and claims 1-17. In example 2, the amount of carbon black in the carbon dispersion is 21%, which converts to 2.9% carbon black.

Thakkar fails to specifically exemplify the claimed ratio of pigment to polypropylene glycol of at least 1:1.4 to about 1:2.5 as claimed by applicant.

However, it would have been obvious to one of ordinary skill in the art to use the specific ratio of pigment to polypropylene glycol as claimed by applicant as Thakkar also discloses the use of pigment and polypropylene glycol in overlapping ranges but shows no example incorporating them in the claimed ratio.

A prima facie case of obviousness exists where the claimed ranges and prior art ranges do not overlap but are close enough that one skill in the art would have expected them to have the same properties *Titanium Metals Corp of America v. Banner*, 778 F.2d 775, 227 USPQ 773.

Claims 1-7, 10-16, and 24-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over EP 1 114 850.

EP 1 114 850 teaches an ink composition comprising a colorant, glycerin, a glycol compound and water (abstract and page 3 lines 9-10). The colorant is a pigment that has been rendered dispersible and/or dissolved in water without a surfactant or a dispersant (page 3 lines 14-16). The glycol compound is present in the amount of 1 to 30 percent by weight and has a molecular weight is about 130 to 3,000 such as polypropylene glycol (page 4 line 54-page 5 line 36). Water is the main solvent in the ink composition however addition solvents such as 2-pyrrolidone may be present and

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the ink further comprise pH adjustors, antioxidants and ultraviolet absorbers, preservatives and antimold (page 5 line 40-page 6 line 33). See Comparative Example W3 and W4. In example W3 and W4, the amount of pigment in the dispersion is 10%, which converts to 4.5% pigment. EP 1 114 850 fails to specifically exemplify the claimed ratio of pigment to polypropylene glycol of at least 1:1.4 to about 1:2.5 as claimed by applicant.

However, it would have been obvious to one of ordinary skill in the art to use the specific ratio of pigment to polypropylene glycol as claimed by applicant as EP 1 114 850 also discloses the use of pigment and polypropylene glycol in overlapping ranges but shows no example incorporating them in the claimed ratio, absence tangible evidence to the contrary.

Nonpreferred embodiments can be indicative of obviousness. *Merck & Co. v. Biocraft Laboratories Inc.* 10 USPQ 2d 1843 (Fed. Cir. 1989); *In re Lamberti* 192 USPQ 278 (CCPA 1976); *In re Kohler* 177 USPQ 399 (CCPA 1973); *In re Mills* 176 USPQ 196 (CCPA 1972); In re Bozek 163 USPQ 545 (CCPA 1969); *In re Meinhardt* 157 USPQ 270 (CCPA 1968); *In re Boe* 148 USPQ 507 (CCPA 1976); *In re Nehrenberg* 126 USPQ 383.

A reference is not limited to working examples. *In re Fracalossi* 215 USPQ 569 (CCPA 1982).

Response to Arguments

Applicant's arguments filed 10-21-05 have been fully considered but they are not persuasive.

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In response to applicant's argument that Thakkar is directed to pigmented ink for use in continuous inkjet printers, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. In a claim drawn to a process of making, the intended use must result in a manipulative difference as compared to the prior art. See *In re Casey*, 370 F.2d 576, 152 USPQ 235 (CCPA 1967) and *In re Otto*, 312 F.2d 937, 939, 136 USPQ 458, 459 (CCPA 1963). Therefore the rejection over Thakkar has been maintained.

Applicant argues that the two formulation taught by EP 1 114 850 unsuitable for ink jet printing and that one of ordinary skill in the art would not look to an ink formulation which is inoperable for ink jet printing. The Examiner would like to point out that Applicant's claimed invention is to a ink formulation, which may be used in more that just ink jet printer, as EP 1 114 850 also discloses that its ink composition may also be used in writing utensils and other various printing methods (page 3 para. 0011).

Applicant also argues that the ink composition of the present invention does not contain glycerin but does comprise a particular glycol, namely polypropylene glycol. However, Applicant claims recite the term "comprising" which leaves the claim open for the inclusion of unspecified ingredients event in major amounts. *Ex parte Davis et al.*, 80 USPQ 448 (PTO Bd. App. 1948). When Applicant contends that modifying components in the reference composition are excluded by the recitation of "consisting essentially of" Applicant has the burden of showing the basic and novel characteristics

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of his composition – i.e. showing that the introduction of these components would materially change the characteristics of Applicant's composition. *In re De Lajarte*, 337 F 2d 870, 143 USPQ 256 (CCPA 1964). Therefore the rejection of EP 1 114 850 has been maintained absence tangible evidence to the contrary.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Veronica Faison-Gee whose telephone number is 571-272-1366. The examiner can normally be reached on Monday-Thursday and alternate Fridays 8 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

vfg 5-30-06

SUPERVISORY PATENT EXAMINER